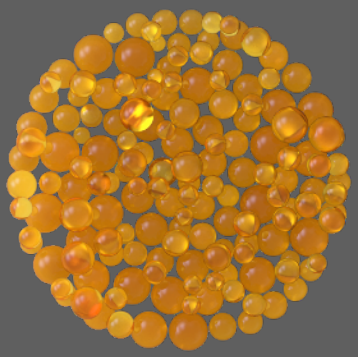
Felite™ Resin FC108



Strong Acid Cation, Gel
Standard Mesh Size
Na^+ form

Industrial Grade

Felite™ FC108 is an 8% crosslinked gel strong acid cation resin with standard mesh range, supplied in sodium form and it is primarily used in coflow regenerated industrial and residential softening applications that require good regeneration efficiency and oxidative stability. Its standard beads size distribution gives optimum operating capacity with minimum leakages of ions and also minimum pressure drop across the resin bed.

Felite™ FC108 is supplied in both industrial grade and potable water grade. It also can be used for demineralization in industrial water treatment when regenerated with mineral acids (hydrochloric or sulphuric acids) as the H form cation resin.

Principal Application:

- Softening - Industrial;
- Softening - Potable Water(*When ordered as Felite™ FC108-P*);
- Iron Removal;

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Styrene/DVB, Gel
Appearance	Spherical Beads
Functional Group	Sulfonic Acid
Ionic form, as shipped	Na^+
Total Capacity (mmol/ml)	2.0 min. (Na^+)
Moisture Retention	44 - 48%
Particle Size Range (mm)	0.3 - 1.2 (≤0.3mm, 1% max.; > 1.2mm, 5% max.)
Uniformity Coefficient (max.)	1.7
Reversible Swelling, $Na^+ \rightarrow H^+$ (max.)	9%
Shipping Weight (g/L, approx.)	800 - 840 (52 lb/ft³)
Specific Gravity	1.29
Temperature Limit	120°C (248°F)
Stability, pH Range	0 - 14

PACKAGING:

25 Litres / 1 cu.ft PE Bag;
48 / 42 Bags Per Pallet;
20 Pallets Per 20ft Container

1 m³ Supersack Per Pallet;
20 Pallets Per 20ft Container

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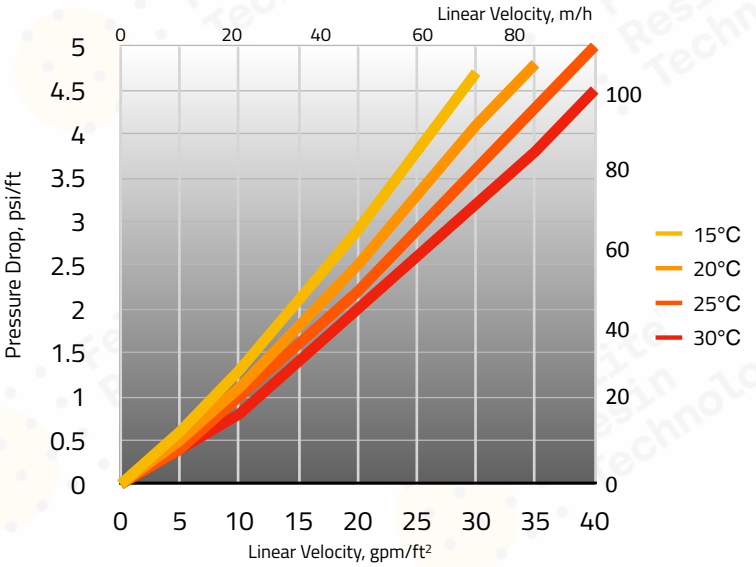
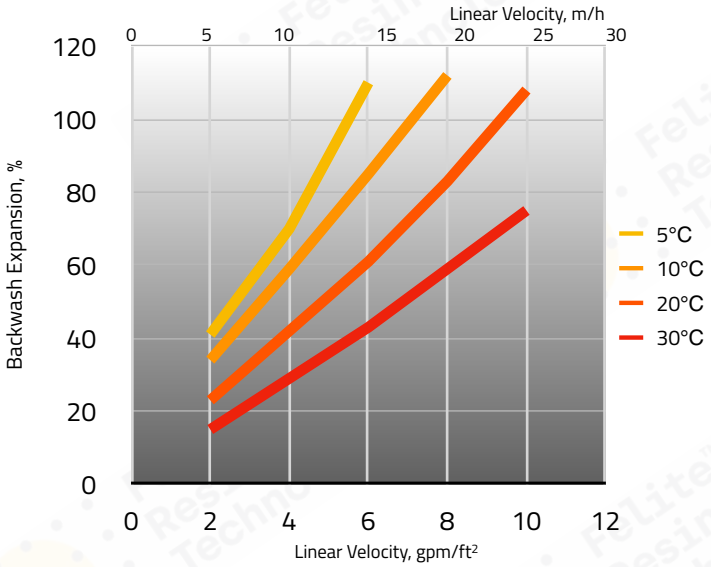
Felite™ Resin Technology

PRESSURE DROP



BACKWASH EXPANSION



PERFORMANCE

The operating capacity depends on several factors such as the water analysis and the level of regeneration. The data to calculate the operating capacity and the ionic leakage with co-flow regeneration are given in the Engineering Data Sheets.

LIMITS OF USE

Felite™ FC108 resin is suitable for industrial uses. For other specific applications such as pharmaceutical, food processing or potable water applications, it is recommended that all potential users seek advice from Felite™ Resin Technology in order to determine the best resin choice and optimum operating conditions.

HYDRAULIC CHARACTERISTICS

Figure 1 shows the pressure drop data for Felite™ FC108 resin, as a function of service flow rate and water temperature. Figure 2 shows the bed expansion of Felite™ FC108 resin, as a function of backwash flow rate and water temperature. Pressure drop data are valid at the start of the service run with clear water and a correctly classified bed.

SUGGESTED OPERATING CONDITIONS:

Minimum Bed Depth	700mm		
Service Flow Rate	5 - 40 BV*/h		
Regeneration			
- Regenerant	HCl	H_2SO_4	NaCl
- Level (g/L)	50 - 150	60 - 240	80 - 250
- Concentration (%)	5 - 8	0.7 - 6	10
- Flow Rate (BV/h)	2 - 5	2 - 20	2 - 8
- Minimum Contact Time	30 minutes		
- Slow Rinse	2 BV* at regeneration flow rate		
- Fast Rinse	2 - 4 BV* at service flow rate		

** 1 BV (Bed Volume) = 1 m^3 solution per m^3 resin*

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